

## **6 CONSULTATION LETTERS**

The correspondence reproduced in this chapter includes references to a new facility, the Center for Structural Genomics; that facility is no longer part of the proposed action.





# Department of Energy

Argonne Area Office  
9800 South Cass Avenue  
Argonne, Illinois 60439

JAN 21 2003

Ms. Anne E. Haaker, Deputy State Historic  
Preservation Officer  
Illinois Historic Preservation Agency  
Old State Capitol  
Springfield, Illinois 62701

RECEIVED

JAN 22 2003  
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Preservation Services

IHPA REVIEW

H/A CONCUR 2/10/03  
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AR \_\_\_\_\_  
File DU IDOE

Dear Ms. Haaker:

The Department of Energy (DOE) is requesting your concurrence that proposed activities at Argonne National Laboratory would not affect structures or archaeological sites that are eligible for listing on the National Register of Historic Places.

DOE is preparing an Environmental Assessment (EA) for enhanced operations of the Advanced Photon Source (APS). The APS is a third generation synchrotron light source – a type of steady-state particle accelerator that provides high-brilliance beams of high-energy x-rays to a variety of scientists. The EA will address continued and enhanced operations of the APS. Continued operations would include existing types of research activities and upgrades to utility systems at the APS. Enhanced operations would include (1) construction and operation of a 40,000 ft<sup>2</sup> Center for Nanoscale Materials at the APS, (2) construction and operation of a 30,000 ft<sup>2</sup> Structural Genomic Center at the APS, and (3) biosafety level 3 research at the APS. Enclosure 1 shows the location of the APS at Argonne, and enclosure 2 shows the proposed new centers at the APS.

DOE does not believe these proposed activities would affect any eligible properties because the proposed new construction would be within the footprint of the area disturbed during construction of the APS in the early 1990's and because no structures at the APS are eligible for listing.

If you have any questions, please call Donna Green at (630) 252-2264.

Sincerely,

Robert C. Wunderlich  
Area Manager

Enclosures:  
As Stated

# CONCUR

By: Anne E. Haaker  
Deputy State Historic Preservation Officer

Date: 2/10/03

**File: 5400.2 (2.8)**

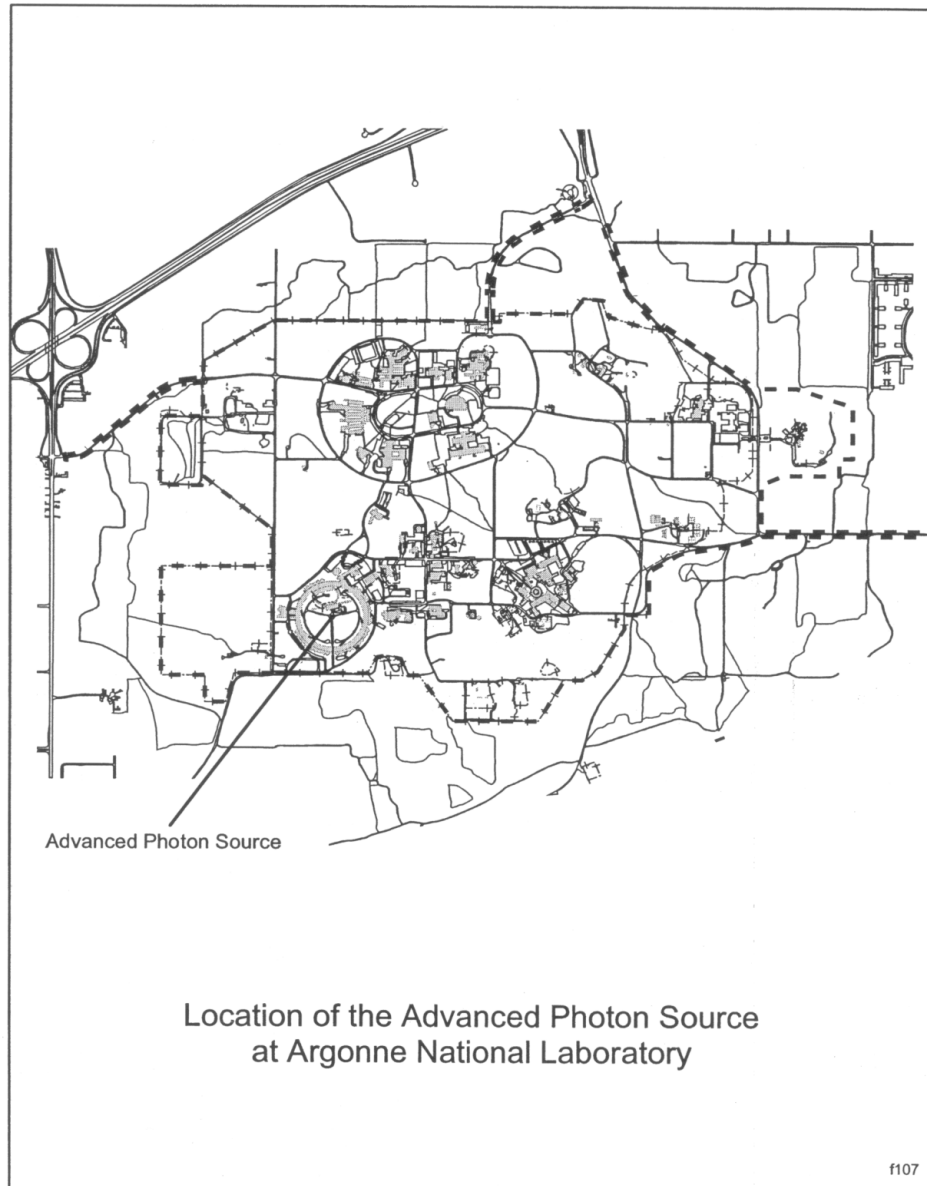
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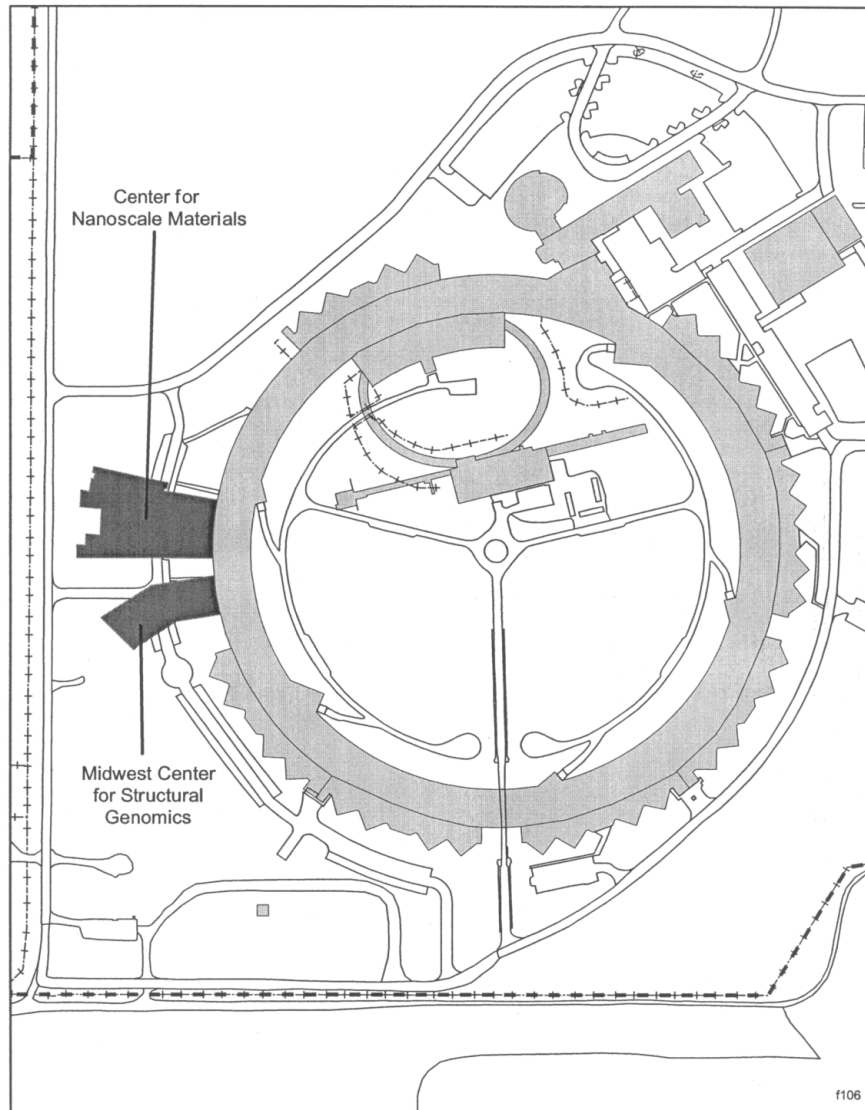
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Planned Construction at the  
Advanced Photon Source



## United States Department of the Interior

### U.S. FISH AND WILDLIFE SERVICE

Chicago Illinois Field Office  
1250 South Grove Avenue, Suite 103  
Barrington, Illinois 60010  
847-381-2253 847-381-2285 (Fax)



*Celebrating a  
Century  
of Conservation!*

IN REPLY REFER TO

FWS/AES-CIFO  
(T1372)

August 27, 2002

Mr. Robert C. Wunderlich  
Department of Energy  
Argonne Area Office  
9800 South Cass Avenue  
Argonne, Illinois 60439

Dear Mr. Wunderlich:

This responds to your letter dated August 13, 2002 requesting information on endangered or threatened species on or near the site of the proposed enhanced operations of the Advanced Photon Source located at T37N, R11E, Section 9 at Argonne National Laboratory, DuPage County, Illinois as depicted on the map you enclosed.

The proposed site as depicted on your map is approximately 1 mile from a known habitat location for the federally endangered Hine's emerald dragonfly (*Somatochlora hineana*). The Hine's emerald dragonfly occupies marshes and sedge meadows fed by calcareous groundwater seepage and underlain by dolomite bedrock. In general, these areas are characterized by the presence of slowly flowing water and nearby or adjacent forest edges. Water quality and quantity is an important element of the Hine's emerald dragonfly habitat. Maintaining adequate water quality through surface and groundwater monitoring is essential since the species uses its aquatic habitat for breeding and spends the majority of its life cycle in an aquatic form. We request that studies be conducted in order to determine if the proposed project, could adversely affect the habitat of the Hine's emerald dragonfly. Studies should focus on determining if the proposed project is in the same aquifer as the aquifer that supplies groundwater to the Hine's emerald dragonfly site and if the project would affect water quality or quantity. Watershed-wide studies are currently underway coordinated by Corlands and the U.S. Army Corps of Engineers Chicago District.

Mr. Robert C. Wunderlich

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If the studies reveal that the project adversely affects water quality or quantity, consultation on this project should begin with the Service and the U.S. Army Corps of Engineers in accordance with section 7 of the Act.

This letter only addresses federally listed species; the Illinois Department of Natural Resources should be contacted for information on State-listed species. Any impacts to wetlands or waters of the United States may require a permit from the U. S. Army Corps. of Engineers. This letter does not preclude separate evaluation and comment by the U.S. Fish and Wildlife Service on wetland impacts proposed for section 404, Clean Water Act authorization.

If you have any questions, please contact Ms. Cathy Pollack at 847/381-2253, ext. 239 or Ms. Karla Kramer at 847/381-2253, ext. 230.

Sincerely,



John D. Rogner  
Field Supervisor

*Active*



DEC 16 2002

Mr. John Rogner, Field Supervisor  
U. S. Fish and Wildlife Service  
Chicago Illinois Field Office  
1250 South Grove Avenue, Suite 103  
Barrington, Illinois 60010

Dear Mr. Rogner:

References: 1. Letter, R. Wunderlich to J. Rogner, dated August 13, 2002  
2. Letter, J. Rogner to R. Wunderlich, dated August 27, 2002

On August 13, the Department of Energy requested your concurrence that continued operations of and proposed upgrades to the Advanced Photon Source (APS) at Argonne National Laboratory would not have adverse effects on Federally-listed threatened or endangered species. You responded on August 27 and asked for studies to determine if the proposed activities could adversely affect the Hine's emerald dragonfly habitat approximately one mile to the south of the APS.

We have evaluated the impacts of continued operations of the APS and upgrades to the APS and concluded that neither would adversely affect either the quantity or the quality of water in the aquifer that feeds the dragonfly habitat.

The dragonfly habitat is fed by the regional Silurian dolomite aquifer that is 150 to 200 feet thick in southeast DuPage County. At the APS, the dolomite is overlain by more than 100 feet of glacial drift material. Much of this drift is fine-grained low-permeability glacial till, with thin interbeds of discontinuous sands and gravels. Flow within the drift is predominantly lateral within the more permeable interbeds, with little or no connection to the dolomite aquifer.

The Argonne water supply is from Lake Michigan. Neither continued operations of the APS nor proposed upgrades to the APS would involve pumping water from the dolomite aquifer.

Wastewater from the APS would continue to be treated at the Argonne Wastewater Treatment Plants and discharged to Sawmill Creek; storm water would be managed to avoid impacts to surface waters.

Since the APS is a particle accelerator, it has a potential to create short-lived activation products such as oxygen-15 in soil and groundwater. However, activation products in the soil and groundwater at the APS are expected to remain negligible due to the configuration of the APS. Because there is very little connection between the glacial till aquifer that underlies the APS and the dolomite aquifer that feeds the dragonfly habitat, there would be no impacts on the dolomite aquifer from continued operations and upgrades of the APS.

Mr. John Rogner

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DEC 16 2002

If you have any questions, please call Donna Green at (630) 252-2264.

Sincerely,

signed by

Robert C. Wunderlich  
Area Manager

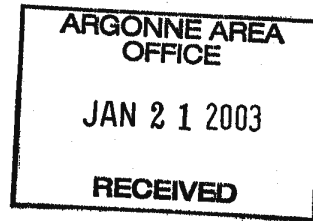


## United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Chicago Ecological Services Field Office  
1250 South Grove Avenue, Suite 103  
Barrington, Illinois 60010  
Phone: (847) 381-2253 Fax: (847) 381-2285

IN REPLY REFER TO:

FWS/AES-CIFO/T1372/T331



January 15, 2003

Mr. Robert C. Wunderlich  
Department of Energy  
Argonne Area Office  
9800 South Cass Avenue  
Argonne, Illinois 60439

Dear Mr. Wunderlich:

Thank you for your response dated December 16, 2002 in regards to a letter from us dated August 27, 2002 requesting searches for the federally endangered Hine's emerald dragonfly (*Somatochlora hineana*) at the proposed Argonne National Laboratory development site located at T37N, R11E, Section 9 at Argonne National Laboratory, DuPage County, Illinois as depicted on the map you enclosed.

We concur with the opinion of the Department of Energy, for reasons given, that the dragonfly is not likely to be present on the subject parcel.

Based on the information provided in your submittal and a review of our records, we do not believe that any federally endangered or threatened species occur in the vicinity of the site. Based on the information provided, it does not appear that the project is likely to adversely affect any federally threatened or endangered species or adversely modify critical habitat of such species. This precludes the need for consultation on this project in accordance with section 7 of the Endangered Species Act of 1973, as amended. Should project modifications or new information indicate that endangered or threatened species may be affected, and the project is funded, authorized or carried out by a Federal agency, then consultation with the Service should be initiated by the Federal action agency.

This letter only addresses federally listed species; the Illinois Department of Natural Resources should be contacted for information on State-listed species. Any impacts to wetlands or waters of the United States may require a permit from the U. S. Army Corps. of Engineers. This letter

Mr. Robert C. Wunderlich

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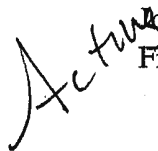
does not preclude separate evaluation and comment by the U.S. Fish and Wildlife Service on wetland impacts proposed for section 404, Clean Water Act authorization.

If you have any questions, please contact Ms. Kristy Mielcarek at 847/381-2253, ext. 227 or Ms. Karla Kramer at 847/381-2253, ext. 230.

Sincerely,

A handwritten signature in cursive script that reads "Karla Kramer".

John D. Rogner  
Field Supervisor

A handwritten word "Active" in cursive script, written diagonally across the typed name and title.